RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/750,939 D

Source: IPWO

Date Processed by STIC: 9-28-04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U-S PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS.
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - cPAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

IFWO

RAW SEQUENCE LISTING   DATE: 09/28/2004
PATENT APPLICATION: US/10/750,939D   TIME: 10:40:04

Input Set : A:\niles non-provisional-US corrected 9-13-04.txt
Output Set: N:\CRF4\09282004\J750939D.raw

```
 3 <110> APPLICANT: Niles, Edward
 5 <120> TITLE OF INVENTION: Novel Inhibitors of Poxvirus Replication
 7 <130> FILE REFERENCE: 11520.0333
 9 <140> CURRENT APPLICATION NUMBER: US 10/750,939D
10 <141> CURRENT FILING DATE: 2004-01-02
12 <150> PRIOR APPLICATION NUMBER: US/60/437,945
13 <151> PRIOR FILING DATE: 2003-01-02
15 <160> NUMBER OF SEQ ID NOS: 20
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 7
19 <212> TYPE: RNA
20 <213> ORGANISM: Artificial Sequence
22 <220> FEATURE:
23 <221> NAME/KEY: unsure
24 <222> LOCATION: 6
25 <223> OTHER INFORMATION: pox virus; n is g,a,u or c
27 <400> SEQUENCE: 1
```
W--> 28 uuuuunu   7
```
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 7
32 <212> TYPE: DNA
33 <213> ORGANISM: artificial sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: nascent pox virus termination signal
38 <400> SEQUENCE: 2
39 tttttttt  7
42 <210> SEQ ID NO: 3
43 <211> LENGTH: 22
44 <212> TYPE: RNA
45 <213> ORGANISM: artificial sequence
47 <220> FEATURE:
48 <221> NAME/KEY: unsure
49 <222> LOCATION: 14
50 <223> OTHER INFORMATION: U5NU-22-mer oligo; n is g,a,u or c
52 <400> SEQUENCE: 3
```
W--> 53 gggccggcuu uuunuuugcg uu   22
```
56 <210> SEQ ID NO: 4
57 <211> LENGTH: 22
58 <212> TYPE: RNA
59 <213> ORGANISM: artificial sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: mutant- 22-mer oligo
64 <400> SEQUENCE: 4
```

Does Not Comply
Corrected Diskette Needed
(p5.2-4)

RAW SEQUENCE LISTING   DATE: 09/28/2004
PATENT APPLICATION: US/10/750,939D   TIME: 10:40:04

        Input Set : A:\niles non-provisional-US corrected 9-13-04.txt
        Output Set: N:\CRF4\09282004\J750939D.raw

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 65 gggccggcaa uuauuaugcg uu  22
 68 <210> SEQ ID NO: 5
 69 <211> LENGTH: 36
 70 <212> TYPE: RNA
 71 <213> ORGANISM: artificial sequence
 73 <220> FEATURE:
 74 <221> NAME/KEY: unsure
 75 <222> LOCATION: 23
 76 <223> OTHER INFORMATION: pGEM-U5NU-36-mer oligo n is g,a,u or c
 78 <400> SEQUENCE: 5
```
W--> 79 **gggcgaauug ggccggcuuu uunuuugcgu ugaauu 36**
```
 82 <210> SEQ ID NO: 6
 83 <211> LENGTH: 36
 84 <212> TYPE: RNA
 85 <213> ORGANISM: artificial sequence
 87 <220> FEATURE:
```
W--> 88 **<221> NAME/KEY:**
```
 89 <222> LOCATION:
 90 <223> OTHER INFORMATION: pGEM-Br-U5NU-36-mer; uracils at 8,9,18-26, 30, 31, 35 and
 91       36 are brominated
 93 <400> SEQUENCE: 6
 94 gggcgaauug ggccggcuuu uuuuuugcgu ugaauu  36
 96 <210> SEQ ID NO: 7
 97 <211> LENGTH: 27
 98 <212> TYPE: DNA
 99 <213> ORGANISM: artificial sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: transcription template plasmid oilgo
104 <400> SEQUENCE: 7
105 aattgggccg gctttttttt tgcgttg    27
108 <210> SEQ ID NO: 8
109 <211> LENGTH: 22
110 <212> TYPE: DNA
111 <213> ORGANISM: artificial sequence
113 <220> FEATURE:
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W--> 114 **<221> NAME/KEY:**
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115 <222> LOCATION:
116 <223> OTHER INFORMATION: dU5NdU oligo; 9-17 is deoxyuracil
118 <400> SEQUENCE: 8
119 gggccggcuu uuuuuugcg uu  22
122 <210> SEQ ID NO: 9
123 <211> LENGTH: 22
124 <212> TYPE: RNA
125 <213> ORGANISM: artificial sequence
127 <220> FEATURE:
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W--> 128 **<221> NAME/KEY:**
```
129 <222> LOCATION:
130 <223> OTHER INFORMATION: BrdU5NdU oligo; 9-17 is brominated deoxyuracil
132 <400> SEQUENCE: 9
```

9-17

```
       133 gggccggc⟨uu uuuuuuu⟩gcg uu  22
       135 <210> SEQ ID NO: 10
       136 <211> LENGTH: 22
       137 <212> TYPE: DNA
       138 <213> ORGANISM: artificial sequence
       140 <220> FEATURE:
W-->   141 <221> NAME/KEY:
       142 <222> LOCATION:
       143 <223> OTHER INFORMATION: T5NT
       145 <400> SEQUENCE: 10
       146 gggccggctt ttttttgcg uu  22
       149 <210> SEQ ID NO: 11
       150 <211> LENGTH: 22
       151 <212> TYPE: DNA
       152 <213> ORGANISM: artificial sequence
       154 <220> FEATURE:
W-->   155 <221> NAME/KEY:
       156 <222> LOCATION:
       157 <223> OTHER INFORMATION: mutant T5NT
       159 <400> SEQUENCE: 11
       160 gggccggcaa ttattatgcg tt  22
       162 <210> SEQ ID NO: 12
       163 <211> LENGTH: 17
       164 <212> TYPE: RNA
       165 <213> ORGANISM: artificial sequence
       167 <220> FEATURE:
       168 <221> NAME/KEY: unsure
       169 <222> LOCATION: 10
       170 <223> OTHER INFORMATION: U5NU 17-mer oligo; n is a,g,u or c
       172 <400> SEQUENCE: 12
W-->   173 cggcuuuuun uuugcgu  17
       175 <210> SEQ ID NO: 13
       176 <211> LENGTH: 13
       177 <212> TYPE: RNA
       178 <213> ORGANISM: artificial sequence
       180 <220> FEATURE:
       181 <221> NAME/KEY: unsure
       182 <222> LOCATION: 8
       183 <223> OTHER INFORMATION: U5NU-13-mer oligo; n is a,g, u or c
       185 <400> SEQUENCE: 13
W-->   186 gcuuuuunuu ugc  13
       189 <210> SEQ ID NO: 14
       190 <211> LENGTH: 9
       191 <212> TYPE: RNA
       192 <213> ORGANISM: artificial sequence
       194 <220> FEATURE:
       195 <221> NAME/KEY: unsure
       196 <222> LOCATION: 7 6
       197 <223> OTHER INFORMATION: U5NU-9-mer oligo; n is a,g,u or c
```

[handwritten annotation:] ⟨7⟩ 6 N is at location 6; "u" is at location 7 (see p. 4)

```
                    RAW SEQUENCE LISTING              DATE: 09/28/2004
                    PATENT APPLICATION:  US/10/750,939D    TIME: 10:40:04

                    Input Set : A:\niles non-provisional-US corrected 9-13-04.txt
                    Output Set: N:\CRF4\09282004\J750939D.raw


          199 <400> SEQUENCE: 14
W--> 200 uuuuu(nu)uu  9
          203 <210> SEQ ID NO: 15
          204 <211> LENGTH: 7
          205 <212> TYPE: RNA
          206 <213> ORGANISM: artificial sequence
          208 <220> FEATURE:
          209 <221> NAME/KEY: unsure
          210 <222> LOCATION: 6
          211 <223> OTHER INFORMATION: U5NU-7-mer oligo; n is a,g,u or c
          213 <400> SEQUENCE: 15
W--> 214 uuuuunu 7
          217 <210> SEQ ID NO: 16
          218 <211> LENGTH: 7
          219 <212> TYPE: RNA
          220 <213> ORGANISM: artificial sequence
          222 <220> FEATURE:
W--> 223 <221> NAME/KEY:
          224 <222> LOCATION:
          225 <223> OTHER INFORMATION: mutant 7-mer
          227 <400> SEQUENCE: 16
          228 uuuuuau 7
          230 <210> SEQ ID NO: 17
          231 <211> LENGTH: 22
          232 <212> TYPE: DNA
          233 <213> ORGANISM: artificial sequence
          235 <220> FEATURE:
          236 <221> NAME/KEY: unsure
          237 <222> LOCATION: 14
          238 <223> OTHER INFORMATION: DNA-U9-DNA oligo; n is g,a,u or c; 1-8 and 18-22 are DNA
          240 <400> SEQUENCE: 17
W--> 241 gggccggcuu uuunuuugcg uu  22
          243 <210> SEQ ID NO: 18
          244 <211> LENGTH: 22
          245 <212> TYPE: RNA
          246 <213> ORGANISM: artificial sequence
          248 <220> FEATURE:
          249 <221> NAME/KEY: unsure
          250 <222> LOCATION: 14
          251 <223> OTHER INFORMATION: 2-prime-O-Me-RNA-PT-U9-2-prime-O-Me-PT-RNA oligo; n is g,a,u
or c; 1-8
          252       and 18-22 are 2-prime-O methylated; 1-8 and 17-22 have phoshporthiol bonds
          254 <400> SEQUENCE: 18
W--> 255 gggccggcuu uuunuuugcg uu  22
          257 <210> SEQ ID NO: 19
          258 <211> LENGTH: 22
          259 <212> TYPE: DNA
          260 <213> ORGANISM: artificial sequence
          262 <220> FEATURE:
          263 <221> NAME/KEY: unsure
```

```
      264 <222> LOCATION: 14
      265 <223> OTHER INFORMATION: PT-DNA-U9-PT-DNA oligo; n is g,a,u or c; 1-8 and 18-22
      266       are phosphorthiols; 9-17 are RNA
      268 <400> SEQUENCE: 19
W-->  269 gggccggcuu uuunuuugcg uu  22
      271 <210> SEQ ID NO: 20
      272 <211> LENGTH: 7
      273 <212> TYPE: RNA
      274 <213> ORGANISM: artificial sequence
      276 <220> FEATURE:
      277 <223> OTHER INFORMATION: U5AU oligo
      279 <400> SEQUENCE: 20
      280 uuuuauu  7
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 09/28/2004
PATENT APPLICATION: **US/10/750,939D**   TIME: 10:40:05

Input Set : **A:\niles non-provisional-US corrected 9-13-04.txt**
Output Set: **N:\CRF4\09282004\J750939D.raw**

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 6
Seq#:3; N Pos. 14
Seq#:5; N Pos. 23
Seq#:12; N Pos. 10
Seq#:13; N Pos. 8
Seq#:14; N Pos. 6
Seq#:15; N Pos. 6
Seq#:17; N Pos. 14
Seq#:18; N Pos. 14
Seq#:19; N Pos. 14

VERIFICATION SUMMARY   DATE: 09/28/2004
PATENT APPLICATION: **US/10/750,939D**   TIME: 10:40:05

Input Set : **A:\niles non-provisional-US corrected 9-13-04.txt**
Output Set: **N:\CRF4\09282004\J750939D.raw**

```
L:28 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:88 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:114 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:128 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:141 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:155 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:223 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
```